

Comparisons of Job Characteristics

Focus Occupation: Dental Laboratory Technicians (51-9081)

Associated Occupation: Dental Hygienists (29-2021)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 45

Focus Occupation: Dental Laboratory Technicians (51-9081)

Associated Occupation: Dental Hygienists (29-2021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Medicine and Dentistry	3.7	17.7	11.5	<<	Extensive education and/or training may be required
Customer and Personal Service	11.3	14.9	10.4	<<	Extensive education and/or training may be required
Psychology	6.4	13.2	4.3	<<	Extensive education and/or training may be required
Sales and Marketing	5.2	8.8	7.2	<	Expanded education and/or training may be required
Biology	3.7	8.2	3.1	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 61

Focus Occupation: Dental Laboratory Technicians (51-9081)

Associated Occupation: Dental Hygienists (29-2021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Active Listening	11.0	12.4	9.6	<<	Extensive development of skills in this area may be required
Service Orientation	7.9	9.0	4.4	<<	Extensive development of skills in this area may be required
Science	4.5	7.7	2.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 84			
Focus Occupation: Dental Laboratory Technicians (51-9081) Associated Occupation: Dental Hygienists (29-2021)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	12.5	10.7	<	Some improvement in abilities may be required
Oral Expression	12.4	12.5	9.2	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	12.2	9.7	<	Some improvement in abilities may be required
Finger Dexterity	7.6	11.8	14.1	>	Current ability level is likely sufficient
Arm-Hand Steadiness	6.8	11.1	12.0	0	Current ability level may be sufficient
Near Vision	11.1	11.0	14.2	>>	Current ability level is likely more than sufficient
Manual Dexterity	6.5	10.5	9.2	<	Some improvement in abilities may be required
Written Expression	9.8	10.5	6.4	<<	Extensive improvement in abilities may be required
Extent Flexibility	4.8	7.5	1.5	<<	Extensive improvement in abilities may be required
Wrist-Finger Speed	3.2	4.6	5.4	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 35
Focus Occupation: Dental Laboratory Technicians (51-9081) Associated Occupation: Dental Hygienists (29-2021)		
Work Activities	Exclusivity of Activity	
Understand technical operating, service or repair manuals	6	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 81
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Focus Occupation: Dental Laboratory Technicians (51-9081)
Associated Occupation: Dental Hygienists (29-2021)

Tools and Technologies	Exclusivity
Autoclave and sterilizer equipment and accessories	12
Business function specific software	1
Cameras	2
Computers	1
Content authoring and editing software	1
Dental and subspecialty instruments and devices	37
Dental fillers and finishing and polishing supplies	47
Dental impression and forming equipment and supplies	56
Dental laboratory and sterilization equipment and supplies	62
Dental lasers and illumination and fiber optic equipment and supplies	62
Dental materials	70
Finance accounting and enterprise resource planning ERP software	2
Information exchange software	1
Network applications software	1
Presterilization cleaning equipment and solutions	24

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.